



ExxonMobil

High Density Polyethylene

HD-7845 MMW-HDPE Blown Film Resin

Description

HD-7845 can be processed on high stalk, pocket extrusion or cast lines. Films made from the HD-7845 exhibit an excellent stiffness balance. High thermal stability provides excellent film appearance and high quality recycle. HD-7845 is particularly recommended as a blend component with LLDPE for stiff clear films.

Applications

- Oriented film products
- Protective packaging
- Deli wrap
- Specialty packaging

Resin Properties	Test Based On	Units (SI)	Typical Value ²
Melt Index (I_2)	ExxonMobil Method	g/10 min	0.45
HLMI (I_{21})	ExxonMobil Method	g/10 min	30
Density	ExxonMobil Method	g/cm ³	0.958

Film Properties¹ (1.0 mil)

Tensile Strength	@ Yield	MD	ASTM D-882	psi (MPa)	4700 (32)
		TD			3750 (26)
	@ Break	MD			10,500 (72)
		TD			5300 (36)
Ultimate Elongation	MD	ASTM D-882	%	410	
	TD			5	
1% Secant Modulus	MD	ASTM D-882	psi (MPa)	167,000 (1150)	
	TD			246,000 (1700)	
Elmendorf Tear Strength	MD	ASTM D-1922	g/mil	11	
	TD			710	
Dart Drop Impact, F_{50}		ExxonMobil Method	g/mil	< 37	

1. Film data was obtained on a 3 1/2" blown film line (pocket) with a 2:5:1 blow-up ratio and 60 thousands die gap
2. Values given are typical and should not be interpreted as specification.

FDA Status

HD-7845 is an olefin copolymer which complies with FDA Regulations 21 CFR 177.1520 (c) 3.1 and 3.2, and may be used in articles which are intended to contact foods at or below cooking temperatures.

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FINATHENE®

High Density
Polyethylene

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<u>Resin Properties</u> ⁽¹⁾	<u>Typical Value</u>	<u>ASTM Method</u>
Melt Flow Index, g/10 min 190°C/2.16 kg	0.42	D-1238
190°C/5 kg	1.6	
Density, g/cm ³	0.959	D-792
Melting Point, °F	265	D-3417
<u>Mechanical Properties</u> ⁽¹⁾⁽²⁾		
Tensile Strength at Yield, psi	4,150	D-638, Type IV specimen, 2 in/min
Elongation at Break, %	>750	D-638, Type IV specimen, 2 in/min
Secant Modulus of Elasticity @ 2% strain, psi	160,000	D-638, Type IV specimen, 2 in/min
Flexural Modulus, psi	150,000	D-790

SPECIALTY HDPE EXTRUSION RESIN

Characteristics

- Medium molecular weight
- Narrow molecular weight distribution
- Designed for high speed orientation
- Excellent tensile strength

Applications

- Monofilament
- Slit tape
- Woven and knitted fabrics
- Specialty films

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(1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.
(2) The data listed was determined on compression molded specimens and may, therefore, deviate from molded and extruded specimens.



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All tests were run under laboratory conditions. ASTM (where applicable) testing procedures. The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. The use of Finathene products must be guided by the user's own methods for selection of proper formulation. ATOFINA PETROCHEMICALS, INC. disclaims any responsibility for misuse or miss application of its products. ATOFINA MAKES NO WARRANTY OF MERCHANTABILITY AND THERE IS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULAR PURPOSE. ATOFINA's liability and customer's exclusive remedy for any claims arising out of sales of its products are expressly limited at customer option to replacement of non-performing goods or payment not to exceed the purchase price plus transportation charges thereon in respect to any material which damage is claimed.